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Informatica Cloud/ Power Center Syllabus

Informatica Cloud

- Getting Started Tutorial
- Data Replication Service Overview
- Data Quality Assessment Service Overview
- Creating Connections (Endpoints)
 - Salesforce Connections
 - Database Connections
 - Flat File Connections
 - Custom Source
- External IDs and Relating Objects
- Retrieving Data Using a Lookup

Informatica Cloud Monitor

- Activity Log
 - Restarting a job
 - View Session log
- Activity Monitor
- Data Assessment - Measuring the quality of Salesforce Account.
 - Dashboard
 - Data Files

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- Tasks
- Data Replication - Copying the entire data
- Data Synchronization – Loading and Manipulating data across databases, files
- Mapping Configuration – Create custom tasks
- Power Center – Use Power Center Workflows to run on cloud.
- Configure
 - Secure Agent
 - Connections
 - Schedules
 - Mapplets
 - Saved Queries
 - Published Bundles
 - Published Connectors
- Administer
 - Organization
 - Licenses
 - Users
 - Audit Log

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Special Scenarios

- Salesforce Tasks
- Salesforce Product
- Migrating/Synchronizing Data to Salesforce
- Salesforce to Salesforce Integration

Power Center

Designer Guide:

- Using the Designer
 - Configuring Designer Options
 - Using Toolbars
 - Navigating the Workspace
 - Designer Tasks
 - Viewing Mapplet and Mapplet Reports
 - Working with Sources
 - Working with Relational Sources
 - Working with COBOL Sources
 - Working with Cobol Source Files
 - Working with Flat Files
-

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- Importing Flat Files
- Editing Flat Files Definition
- Formatting Flat Files Column
- File Type – Direct/Indirect
- Working with Targets (File/Tables)
 - Importing Target Definition
 - Creating Target Definition from Source Definition
 - Creating Target Definition from Transformations
 - Creating Target tables
- Mappings
 - Working with Mappings
 - Connecting Mapping Objects
 - Linking Ports
 - Propagating Port Attributes
 - Working with Targets in a Mapping
 - Working with Relational Targets in a Mapping
 - Validating a Mapping
 - Using Workflow Generation Wizard
- Mapplets
 - Understanding Mapplets Input and Output

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- Using Mapplet Designer
- Using Mapplets in Mapping
- Mapping Parameters and Variables
- Working with User-Defined Functions
- Using the Debugger
 - Creating Breakpoints
 - Configuring the Debugger
 - Monitoring the Debugger
 - Evaluating Expression
- Creating Cubes and Dimensions
- Using Mapping Wizard
- Naming Conventions

Transformation Guide:

- Working with Transformations
 - Configuring Transformations
 - Working with Ports
 - Working with Expressions
 - Reusable Transformations
- Aggregator Transformation

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- Custom Transformation
- Expression Transformation
- External Transformation
- Filter Transformation
- Joiner Transformation
- Java Transformation
- Lookup Transformation
- Lookup Caches
- Normalizer Transformation
- Rank Transformation
- Router Transformation
- Sequence Generator Transformation
- Sorter Transformation
- Source Qualifier Transformation
- SQL Transformation
- Stored Procedure Transformation
- Transaction Control Transformation
- Union Transformation
- Update Strategy Transformation

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Transformation Language Reference:

- The Transformation Language
- Constants
- Operators
- Variables
- Dates
- Functions
- Creating Custom Function

Workflow Basics Guide:

- Workflow Manager
 - Workflow Manager Options
 - Navigating the Workspace
 - Working with Repository Objects
 - Copying Repository Objects
 - Comparing Repository Objects
- Workflow and Worklets
 - Creating a Workflow
 - Using Workflow Wizard

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- Assigning an Integration Service
- Working with Worklets
- Working with Links
- Sessions
 - Creating a Session Task
 - Editing a Session
 - Pre- and Post- Session Commands
- Session Configuration Objects
- Tasks
 - Creating a Task
 - Configuring Tasks
 - Working with Command Task
 - Working with Decision Task
 - Working with Event Task
 - Working Timer Task
 - Working with Assignment Task
- Sources
 - Configuring Sources in a Session
 - Working with Relational Sources
 - Working with Flat Sources

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- Targets
 - Configuring Targets in a Session
 - Working with Relational Targets
 - Working with File Targets
 - Reject Files
- Validation
 - Validating Tasks
 - Validating Worklets
 - Validating Session
 - Validating Workflows
- Scheduling and Running Workflows
 - Scheduling a Workflow
 - Manually Starting a Workflow
- Sending Email
 - Working with Email Tasks
 - Working with Post-Session Email
- Workflow Monitor
 - Using Workflow Monitor
 - Customizing Workflow Monitor Options
 - Working with Tasks and Workflows

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- Using Gantt Chart View and Task View
- Workflow Monitor Details
 - Integration Services Properties
 - Workflow Run Properties
 - Worklet Run Properties
 - Session Task Run Properties
 - Performance Details
- Session and Workflow Logs
 - Log Events
 - Log Events Window
 - Working with Log Files
 - Workflow Logs

Administrator Guide:

- Understanding Domains
 - Nodes
 - Application Services
 - Using Administration Console
 - Managing the Domain
 - Managing Alerts
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- Managing Folders
- Managing Permissions
- Managing Application Services
- Managing the Nodes
- Managing Users and Groups
- Managing Privileges and Roles
 - Domain Privileges
 - Repository Services Privileges
 - Reporting Service Privileges
 - Managing Roles – Assigning Privileges and Roles to Users and Groups
- Creating and Configuring the Repository Services
- Managing the Repository
- Creating and Configuring Integration Services
 - Enabling and Disabling the Integration Services
 - Running in Normal and Safe Mode
 - Configuring the Integration Services Processes
- Integration Services Architecture
- Creating the Reporting Services
 - Managing the Reporting Services
 - Configuring the Reporting Services

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- Managing License

Advanced Workflow Guide:

- Understanding Pipeline Partitioning
 - Partitioning Attributes
 - Dynamic Partitioning
 - Partitioning Rules
 - Configuring Partitioning
- Partitioning Points
 - Adding and Deleting Partitioning points
 - Partitioning Relational Sources
 - Partitioning File Targets
 - Partitioning transformations
- Partitioning Types
- Real Time Processing
- Commit Points
- Workflow Recovery
- Stopping and Aborting
 - Error Handling
 - Stopping and Aborting Workflows

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- Concurrent Workflows
- Load Balancer
- Workflow Variables
 - Predefined Workflow Variables
 - User- Defined Workflow Variables
 - Using Worklet Variables
 - Assigning Variable Values in a Worklet
- Parameter and variables in Sessions
 - Working with Session Parameters
 - Assigning Parameter and Variables in a Session
- Parameter File
- Session Caches
- Incremental Aggregation
- Session Log Interface

Command Reference:

- Using Command Line Programs
 - Infacmd
 - Infasetup
 - Pmcmd

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- pmrep

Performance Tuning Guide:

- Performance Tuning Overview
 - Bottlenecks
 - Using Thread Statistics
 - Target Bottlenecks
 - Source Bottlenecks
 - Mapping Bottlenecks
 - Session Bottlenecks
 - System Bottlenecks
 - Optimizing the Targets
 - Optimizing the Source
 - Optimizing the Mapping
 - Optimizing the Transformations
 - Optimizing the Sessions
 - Optimizing the PowerCenter Components
 - Optimizing the System
 - Using Pipeline Partitions
 - Performance Counters
- 

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Repository Guide:

- Understanding the Repository
- Using Repository Manager
- Folders
- Managing Object Permissions
- Working with Versioned Objects
- Exporting and Importing Objects
- Copying Objects

Note: Lab sessions for all the points mentioned above will be taken.

Data warehousing Syllabus

- Evolution of Datawarehousing - History
- The need of Datawarehousing
- Why Datawarehousing
- What is Datawarehousing – The Definition
 - Subject -Oriented
 - Integrated
 - Non – Volatile
 - Time Varying

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➤ Datawarehousing Architecture

- Data Source Layer
- Data Extraction Layer
- Staging Layer
- ETL Layer
- Data Storage Layer
- Data Logic Layer
- Data Presentation Layer
- Metadata Layer
- System Operation Layer

➤ Dimension table

➤ Fact table

- Additive Facts
- Semi Additive Facts
- Non – Additive Fact
- Cumulative
- Snapshot

➤ Attribute

➤ Hierarchy

➤ Types of Schema

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- Star Schema
- Snow Flake Schema
- Fact Constellation Schema
- Slow Changing Dimension
 - SCD1 – Advantages/ Disadvantages
 - SCD2 – Advantages/ Disadvantages
 - SCD3 – Advantages/ Disadvantages
- OLAP and OLTP
 - Difference between OLAP and OLTP
 - Types Of OLAP
 - Multi-Dimensional (MOLAP)
 - Relational(ROLAP)
 - Hybrid(HOLAP)